



User manual

AC EV Charger


PEVC2107E





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Version: V1.02

Safety and Warning

Save these instructions. Read all instructions before installing or using the charger.

- 1) Keep the charging plug from explosive or flammable materials, chemicals, vapors and other hazard objects.
- 2) Keep the charger socket clean and dry. If it gets dirty, please wipe it with clean dry cloth.
- 3) Touching the plug core is strictly forbidden when power on.
- 4) Do not use the charger in case of any device defects, crack, abrasion, bare leakage and so on. Please contact the professional personnel if any of these conditions occurs.
- 5) Do not attempt to disassemble, repair the charger. If necessary, please contact the professional personnel. Improper operation will result in device damage, electric leakage, etc.
- 6) In case any abnormal condition happens, please press the emergency stop button and cut off all input and output power supplies immediately.
- 7) When the screen of charger shows the fault information, please do not operate blindly and contact professional personnel.
- 8) Please protect charging carefully from rain and thunder.
- 9) Keep children away from the charger.
- 10) During charging, do not drive the EV, keep the EV stationary, for hybrid cars, charge only when the engine is switched off.

Warning



Hazardous voltage that gives risk of electrocution



General risk



PE

The input and output voltages of this device are high voltage, which threaten human life safety. Please strictly observe all warnings on the device and user manual. Unauthorized and non-professional service personnel are forbidden to remove the cover of this device.

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1 Product Introduction

1.1 Product Description

The PEVC2017E/U is a basic AC EV Charger ,which include wall-mounting and column-mounting. Suitable for scenarios such as home and business. Easy to install and simple to operate. The shell is simple and elegant, the equipment performance is superior, and it has all-round protection functions. IP55 protection level, good dust-proof and waterproof performance, Type A+6mA DC leakage protection, accurate measurement of charging data.Suitable for indoor and outdoor. Support a variety of charging modes, such as plug and play charging, swipe charging, APP charging, scan code charging. Compatible with Bluetooth/WiFi/Ethernet/4G and other communication functions.

1.2 Product Characteristic



4.3 Inch LCD Display(Screen version)

LCD screen can display the real-time charging status, including time, voltage, current, power and so on.

All-round protection

Include voltage protection, current protection, leakage protection, temperature protection, lightning protection and other protective measures to ensure the safety .

IP55, Strong and Durable

Support outdoor harsh environment, waterproof and dustproof. Rugged shell which could resist the rolling and crash of the car.

High intelligence

Powerful information collection, transmission and communication functions, supporting Bluetooth, Ethernet, 4G and WIFI wireless communication.

Easy to install and use

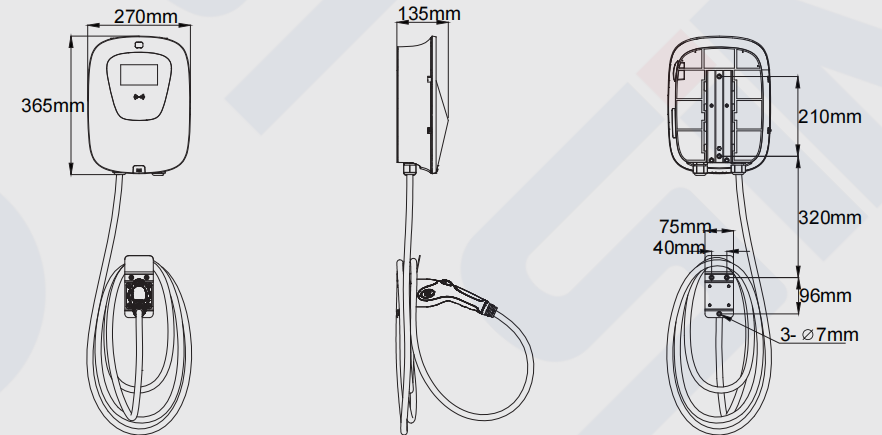
The installation process is simple, payment is convenient and fast, supports mobile application software or IC card swiping. Fully compatible with all EV in the market.

1.3 Product Technical Specifications

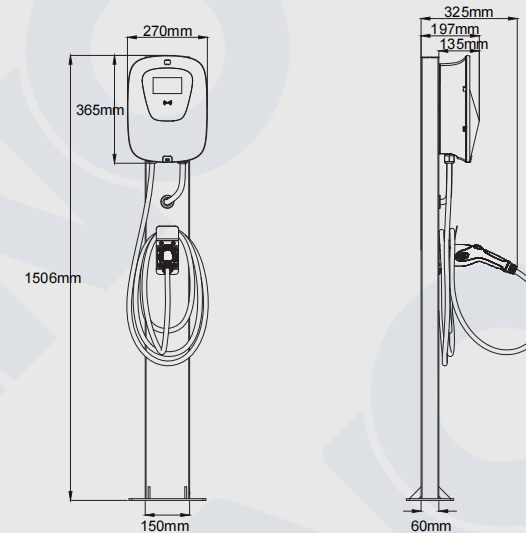
Parameter type	Description	PEVC2107E		
Input parameters	Power Supply	1P+N+PE	3P+N+PE	L1+L2+PE
	Rated voltage	230VAC±10%	400VAC±10%	240VAC±10%
	Frequency	50Hz/60Hz		
Output parameters	Number of output ports	1		
	Rated voltage	230VAC±10%	400VAC±10%	240VAC±10%
	Rated current	16A/32A		
	Rated power	3.7kW/7.4kW	11kW/22kW	3.8kW/7.7kW
Safety	Electrical protection	Over/under voltage protection, Over current protection, Short circuit protection, Over temperature protection, Lightning protection, ground protection		
	RCD	Type A + 6mA DC		
	Protection level	IP55		
	Impact protection	IK08		
	Certification	CE		
	Standards	IEC61851-1, IEC62196-1/2, SAE J1772-2017		
Environmental	Operating temperature	-30°C~+50°C		
	Storage temperature	-40°C~+80°C		
	Altitude	≤2000m		
	Humidity	≤95%, non-condensing		
Basic parameters	Energy Metering	Accuracy Class 1.0 Embedded Metering		
	HMI	4.3 inch LCD		
	Plug cable length	5m		
	Communication	Bluetooth/WiFi/ Ethernet/ 4G LTE		
	Protocol	OCPP-1.6 (JSON)		
	Connector type	Type 2	Type 1	
	Installation method	Wall-mount/column-mount		
	Shell color	Metallic grey		
	Shell material	(ABS+PC)-Blend		
	Start mode	Plug&play/RFID card/APP		

1.4 External Structure

Wall Mounting












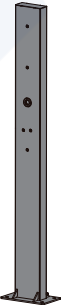
Column Mounting



1.5 Package Contents

Unpack the product. Please check and verify following items after receiving the charger:

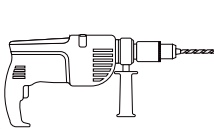
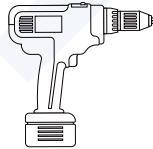
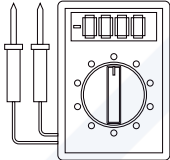




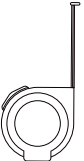
- 1) Visual inspection on charger's external appearance. If there is any breakage or other damage, please notify the seller immediately.
- 2) Check type and quantity of all accessories as follows. If there is a shortage in the quantity of any items or if any items are missing, please contact the seller at once.

General parts					
					
User manual (x1)	RFID card (Card swiping version only) (x2)	Certificate (x1)	Hook (x1)	bellows (x1)	Bracket(The bracket on the rear housing) (x1)
Wall Mounting		Column Mounting			
					
Expansion bolt M6×70 (x5)	Combination screw M6×20 (x5)	Expansion bolt M8×70 (x4)	Column (x1)		

2 Installation Instruction

2.1 Installation Preparation

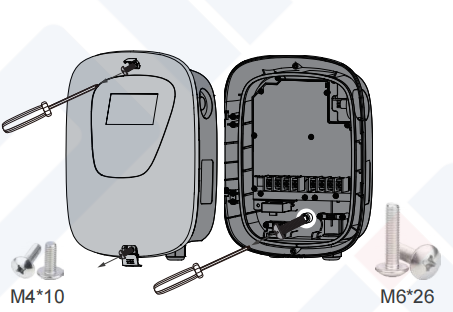
Please prepare the following tools before installation:

			
Hammer drill and drill bit (φ22mm, 7/8 inch)	Electric drill	Multimeter	Hammer
			
screwdriver M4(length)<100	Adjustable wrench	Diagonal Pliers	Measuring tape (5m)

⚠ Installation Notice

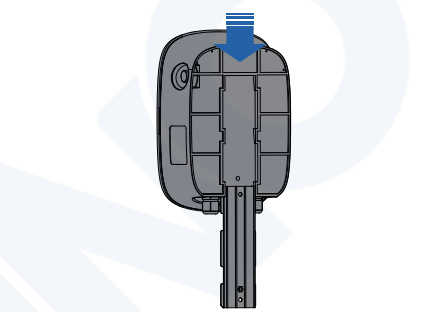
- Electrical devices should only be installed, operated, and maintained by qualified technician. No responsibility is assumed by the manufacturer for any consequences arising out of the use of this device.
- When installing wires, do not turn on the power supply.
- The length of the power cable and communication cable should be properly reserved to facilitate installation and connection.
- Pay attention to protect the charger enclosure during installation to prevent bumping, scratching the surface, etc.
- The charger must be installed vertically, and the deviation of any direction from the vertical position should not exceed 5°.

2.2 Wall Mounting Process

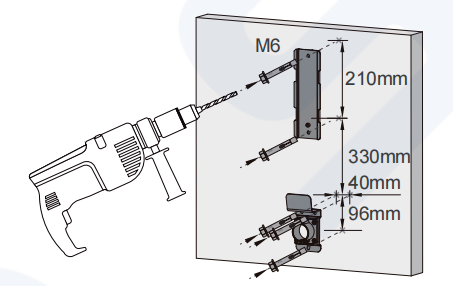


M4*10 M6*26

1) Remove the two screws(M4) on the front cover,open the front cover, and then remove the internal screw (M6).

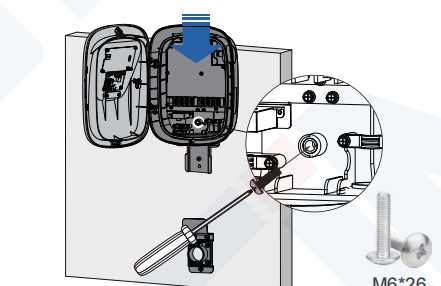


2) Remove the bracket on the rear housing.



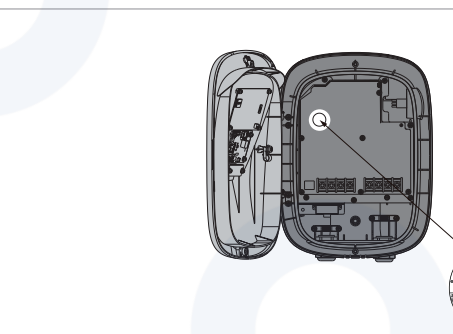
M6 210mm 330mm 40mm 96mm

3) Use the bracket and hook to mark drill holes, place the anchors and fix the bracket and hook to the wall with nuts (x5).



M6*26

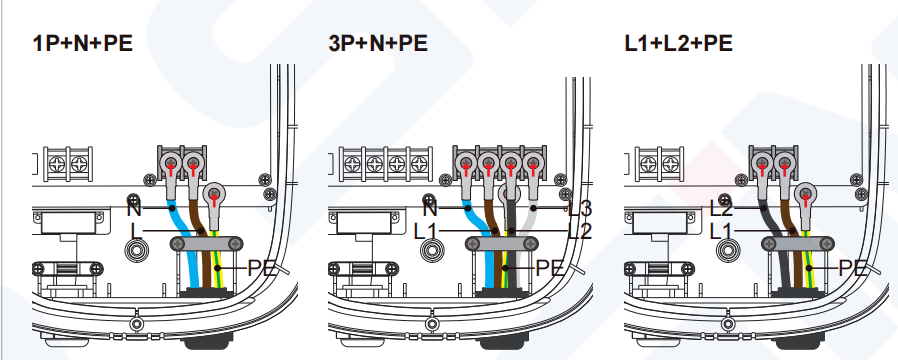
4) Hang the charger station on its bracket from top to down, open the station cover, tighten the screw connected to bracket's stud.



CR2032 3V
CR2032 battery shall be selected

Model: CR2032
Size: $\Phi 20.0 \times 3.2$ mm
Voltage: 3.0V

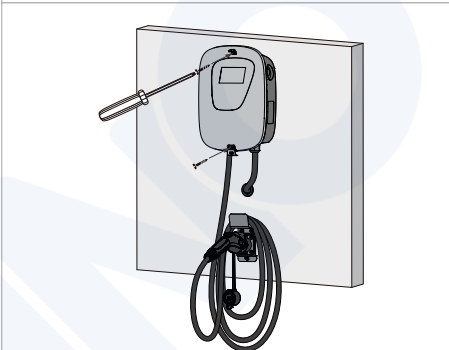
5) Put the positive pole of CR2032 battery upward into the battery holder.



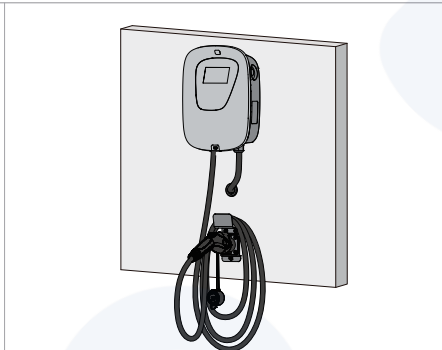
1P+N+PE 3P+N+PE L1+L2+PE

6) Pass the power cable through the bigger cable gland, crimp power terminal from the end of the power cable to be connected to the internal circuit breaker. Connect the ground wire(PE) , neutral wire(N) and each phase(L) to the AC input configuration board.Suggested input wire size 10mm².

⚠ **Certified Circuit Breakers should be installed upstream close to the charging station, or build in RCD. Circuit breaker, if any, shall comply with standard with IEC 60898-1 or IEC 60947-2 or IEC 61009-1. All these protection devices shall be chosen with appropriated technical specification, ie working voltage \geq charging station working voltage, working current \geq charging station working current, Ingress Protection (IP) \geq IP54 or installed inside IP54 protection box for outdoor use.**

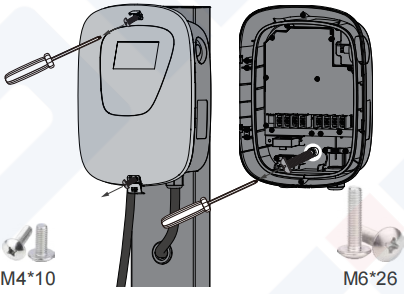


7) Close the charger station cover, tighten the side screws(x2).



8) Complete installation and start to test and charge.

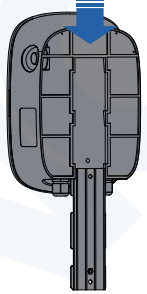
2.3 Column Mounting Process



M4*10

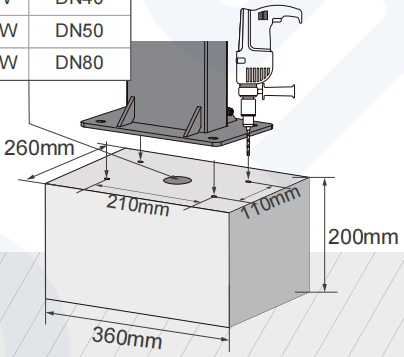
M6*26

1) Remove the two screws(M4) on the front cover, open the front cover, and then remove the internal screw (M6)



2) Remove the bracket on the rear housing.

Power	PVC size
7kW	DN40
11kW	DN50
22kW	DN80



260mm

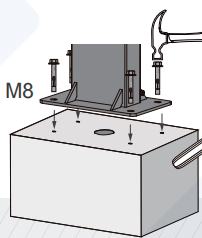
210mm

110mm

200mm

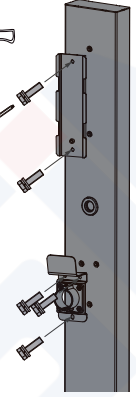
360mm

3) Make concrete platform, mark the holes position of installation column and drill holes.

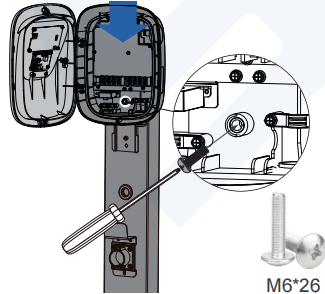


M8

4) Install expansion bolts in the base mounting holes. Fix the column on the concrete platform with expansion bolts(x4).

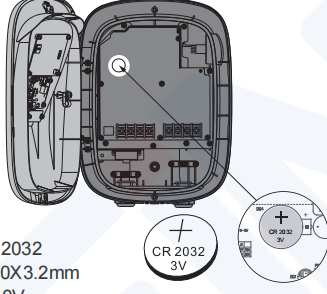


5) Install the bracket on the column(x5).



M6*26

6) Hang the charger station on its bracket from top to down, open the station cover, tighten the screw connected to bracket's stud.

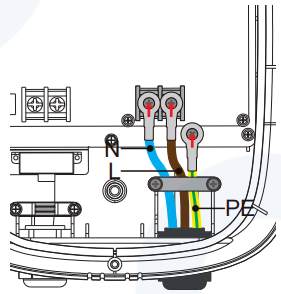


Model: CR2032
Size: $\Phi 20.0 \times 3.2 \text{mm}$
Voltage: 3.0V

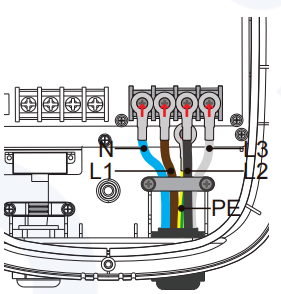
CR2032 battery shall be selected

7) Put the positive pole of CR2032 battery upward into the battery holder.

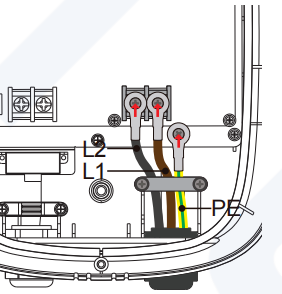
1P+N+PE



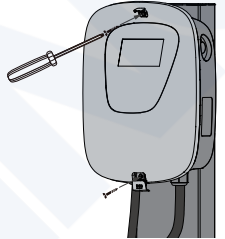
3P+N+PE



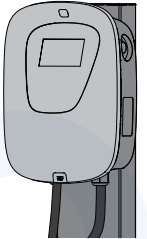
L1+L2+PE



8) Refer to wall mounting wiring instruction.



9) Close the charger station cover, tighten the side screws(x2).



10) Complete installation and start to test and charge.

3 Configuration and Operation

3.1 Power-on Checking

Please check / re-check the following items prior to initial Power-on:

- 1) The location of the charger should be convenient for operational and maintenance.
- 2) Before installation of the charger, ensure that the AC input component in the power supply is properly installed with the required protection.
- 3) Double confirm the charger is installed properly.
- 4) No components or other items have been left inside of the charger.

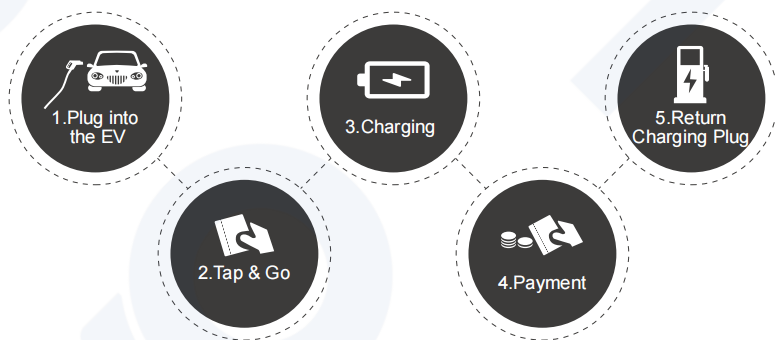
3.2 Start and stop charging by your charge card

Start charging

- 1) Plug charger gun into EV car and LED light turn to blue blinking.
- 2) Hold your RFID card in front of the reader, waiting 3 seconds.

Stop charging

- 1) Waiting LED light turns to blue-green light blinking alternately, hold your charge card (RFID Card) in front of the reader, waiting 3 seconds.
- 2) The buzzer rings, unplug charging cable from your car and place the charging cable back into cable holder.
- 3) LED light turns to green breathing state, equipment returns to idle state.



3.3 Start and stop charging by APP(Bluetooth)

Please Download APP and read "Bluetooth APP Operation Instructions" for more information.

Step 1 Download APP



1. Download the APP either by scanning the QR code or from the Apple / Android APP Store.

Step 2 Version select



2.1 Version Select: home charger select Home version and non household charger select Pro version.



2.2 Version Select confirm.

Step 3 Bluetooth connect



3.1 Turn on the phone's bluetooth. You can click Scand code icon(scand charger QR code) to connect charger or click Add new device icon to enter the search page. If you have used it before, you can click the head directly to select the device to connect.



3.2 After entering the search page, find the available Bluetooth devices, and then click connect icon.

Step 4 Verify a user login



4.1 Please enter the correct password to login in. The initial password is 4567. Change the password after successful login. You should remember the password because it is very important for you next time log in charger and APP. Modify path: Modification-->Device parameters-->Change Password



4.2 If the connection and password is correct, it will login in the home page.

Step 5 Start charging



5.1 Connect your EV car with the charger gun.



5.2 Click the start charging icon and start charging.



5.3 Click on the startup information icon to display charging information in real-time.

Step 6 Stop charging

Fault status








6.1 Click the stop charging icon will stop charging, then unplug the gun to complete the charging.



The fault code table is detailed in 4.2

4 Indication and Fault

4.1 Indicator Status

	LED Light Status	Description of Charging status
	Green	Standby state
	Blue Blinking	Ready state
	Blue	Charging state
	Green/Blue Blinking	Charging stop
	Red	Error state

